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<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/742,895	SUZUKI, KENZABURO	
	<b>Examiner</b>	<b>Art Unit</b>	
	Arnel C. Lavarias	2872	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 11/28/05.
2. ☒ The allowed claim(s) is/are 2-3, 5-8, 10-12, 14-24, 27-28 (renumbered 1-22).
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

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|--|--|
| <ol style="list-style-type: none"> <li>1. <input type="checkbox"/> Notice of References Cited (PTO-892)</li> <li>2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br/>Paper No./Mail Date <u>11/28/05</u></li> <li>4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br/>of Biological Material</li> </ol> | <ol style="list-style-type: none"> <li>5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)</li> <li>6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br/>Paper No./Mail Date <u>12/5/05</u></li> <li>7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment</li> <li>8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance</li> <li>9. <input type="checkbox"/> Other _____.</li> </ol> |
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## **DETAILED ACTION**

### ***Response to Amendment***

1. The amendments to the specification and abstract of the disclosure in the submission dated 11/28/05 are acknowledged and accepted. In view of these amendments, the objections to the specification in Sections 5 and 7 of the Office Action dated 6/27/05 are respectfully withdrawn.
2. The amendments to Claims 2, 17, 22, and 27 in the submission dated 11/28/05 are acknowledged and accepted. In view of the amendments made above, the rejections in Sections 9, 11-17 of the Office Action dated 6/27/05 are respectfully withdrawn.
3. The cancellation of Claims 1, 13, and 25-26 in the submission dated 11/28/05 is acknowledged and accepted.
4. The addition of Claim 28 in the submission dated 11/28/05 is acknowledged and accepted.

### ***Allowable Subject Matter***

5. Claims 2-3, 5-8, 10-12, 14-24, 27-28 are allowed.

## **EXAMINER'S AMENDMENT**

6. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37

Art Unit: 2872

CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mitchell W. Shapiro (703-903-9000) on 12/5/05.

The application has been amended as follows:

Cancel Claims 4 and 9.

Claim 5, line 2, after 'according to', change 'claim 4' to --claim 3--.

Claim 10, line 2, after 'according to', change 'claim 9' to --claim 8--.

Claim 27, line 26, after 'surface is formed', insert --, and  $\phi R$  denotes the effective diameter of the most image side lens surface of the second lens group--.

7. The following is an examiner's statement of reasons for allowance:

Claim 17 is allowable over the cited art of record for at least the reason that the cited art of record fails to teach or reasonably suggest a front teleconverter lens system, as generally set forth in Claim 17, the lens further including, in combination with the features recited in Claim 17, an incident angle of the principle ray passing through the maximum image height to the diffractive optical surface being 15 degrees or less. Claims 2-3, 5-8, 10-12, 14-16, 18-21 are dependent on Claim 17, and hence are allowable for at least the same reasons Claim 17 is allowable.

Claim 22 is allowable over the cited art of record for at least the reason that the cited art of record fails to teach or reasonably suggest a front teleconverter lens system, as

Art Unit: 2872

generally set forth in Claim 22, the lens further including, in combination with the features recited in Claim 22, the first lens group having a biconvex lens and at least one negative lens, and the second lens group having a biconcave lens at the most image side, and wherein the conditional expression  $0.03 < \frac{\phi R}{fd} < 1.0$  is satisfied. Claims 23-24 are dependent on Claim 22, and hence are allowable for at least the same reasons Claim 22 is allowable.

Claim 27 is allowable over the cited art of record for at least the reason that the cited art of record fails to teach or reasonably suggest a front teleconverter lens system, as generally set forth in Claim 27, the lens further including, in combination with the features recited in Claim 27, the first lens group having a biconvex lens and at least one negative lens, and the second lens group having a biconcave lens at the most image side, and wherein the conditional expression  $0.03 < \frac{\phi R}{fd} < 1.0$  is satisfied.

Claim 28 is allowable over the cited art of record for at least the reason that the cited art of record fails to teach or reasonably suggest a front teleconverter lens system, as generally set forth in Claim 28, the lens further including, in combination with the features recited in Claim 28, an incident angle of the principle ray passing through the maximum image height to the diffractive optical surface being 15 degrees or less.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Conclusion***

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arnel C. Lavarias whose telephone number is 571-272-2315. The examiner can normally be reached on M-F 9:30 AM - 6 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Drew Dunn can be reached on 571-272-2312. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Arnel C. Lavarias  
Patent Examiner  
Group Art Unit 2872  
12/5/05